

Title (en)

Optical switch for fast cell switching networks

Title (de)

Optischer Schalter für Hochgeschwindigkeitszellenvermittlungsnetzwerke

Title (fr)

Commutateur optique pour des réseaux de commutation de cellules rapides

Publication

EP 0574864 B1 19981111 (EN)

Application

EP 93109486 A 19930614

Priority

IT TO920510 A 19920615

Abstract (en)

[origin: EP0574864A2] The optical switch for fast cell-switching networks comprises an optical interconnection network (CM) and an electrical control network (CT). In order to fully exploit optical component capabilities and to overcome the constraints imposed by operating speed limits of electronic components, each input (IN1...INk) of the interconnection network (CM) is associated with means (PAC1...PACK) forming aggregates of cells which are to follow a same path through the interconnection network and time-compressing the aggregates, and each output (OU1...OUk) is associated with means (PAD1...PADk) for the time expansion of the aggregates and separation of the aggregate cells. <IMAGE>

IPC 1-7

H04Q 11/00; **H04Q 11/04**

IPC 8 full level

H04Q 11/00 (2006.01); **H04Q 11/04** (2006.01); **H04Q 3/52** (2006.01); **H04L 12/56** (2006.01)

CPC (source: EP US)

H04L 49/104 (2013.01 - EP US); **H04L 49/1553** (2013.01 - EP US); **H04Q 11/0001** (2013.01 - EP US); **H04Q 11/0478** (2013.01 - EP US); **H04Q 11/0066** (2013.01 - EP US)

Cited by

US5734486A; US5604734A; US6831932B1; WO0207356A3

Designated contracting state (EPC)

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EP 0574864 A2 19931222; **EP 0574864 A3 19941102**; **EP 0574864 B1 19981111**; CA 2098358 A1 19931216; CA 2098358 C 19970624; DE 574864 T1 19950608; DE 69321996 D1 19981217; DE 69321996 T2 19990512; IT 1257546 B 19960130; IT TO920510 A0 19920615; IT TO920510 A1 19931215; JP 2578060 B2 19970205; JP H0670385 A 19940311; US 5450225 A 19950912

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